

10

15

20

25

5. The substrate for the light emitting device according to claim 1, characterized in that the electrically conductive transparent film is made of at

least one material selected from the group consisting of indium-tin oxide, indium-zinc oxide, zinc-aluminum oxide, gold, silver, copper and chromium.

5 6. The substrate for the light emitting device according to claim 4, characterized in that the transparent member is made of a glass or a transparent resin.

10 7. The substrate for the light emitting device according to claim 1, characterized in that the low refractive index member is in the form of a thin film.

8. The substrate for the light emitting device according to claim 3 or 4, characterized in that the low refractive index member has been made hydrophobic.

15 9. A light emitting device which comprises a luminous layer and the substrate for the light emitting device according to claim 1, characterized in that the electrically conductive transparent film has the luminous layer on its one surface which is opposite to its other surface which has the low refractive index member thereon.

20 10. The light emitting device according to claim 9, characterized in that the luminous layer is an organic EL layer.

25 11. The light emitting device according to claim 9, characterized in that the luminous layer is an

09708657 110900

9/8
1/8
9/8

inorganic EL layer.

12. A light emitting device which comprises a luminous which is in contact with at least one surface of a low refractive index member of which refractive index is greater than 1 and not greater than 1.30.

13. A light emitting device comprising a low refractive index member of which refractive index is greater than 1 and not greater than 1.30 is located on a transparent member, and a luminous layer is located on a surface of the low refractive index member in the form of the thin film.

14. The light emitting device according to claim 12, characterized in that the low refractive index member is made of an aerogel and preferably of a silica aerogel.

15. The light emitting device according to claim 13, characterized in that the low refractive index member is made of an aerogel and preferably of a silica aerogel in the form of a thin film.

16. The light emitting device according to claim 13, the transparent member is a plate and preferably a glass plate.

17. A light emitting device characterized in that it comprises a luminous layer located on a transparent member, and the luminous layer is made of a low

09708657-110900

Sub
12
emp.

refractive index member in the form of a thin film which contains particles of a luminescent material dispersed therein or which carries such particles.

18. The light emitting device according to claim 17, characterized in that the low refractive index is made of an aerogel and preferably of a silica aerogel.

19. The light emitting device according to claim 17, characterized in that the transparent member is in the form of a plate and preferably in the form of a glass plate.

20. The light emitting device according to any one of claims 12, 13 and 17 characterized in that the luminous layer of the light emitting device is a PL luminous layer or a layer which emits light by means of irradiation of an electron beam.

21. A process for the production of a light emitting device comprising a silica aerogel thin film on a glass plate and a luminous layer on the silica aerogel thin film, which process is characterized in that an alkoxysilane solution is applied on the glass plate followed by gelation of the solution to form a gel material and drying the gel material whereby the silica aerogel thin film is formed, and then the luminous layer is formed on the silica aerogel thin film.

22. A process for the production of a light

09708657-110900
Sub 1K end

emitting device comprising a luminous layer on a glass plate which layer is made of a low refractive index member in the form of a thin film which contains particles of the luminescent material dispersed therein or which carries such particles, which process is characterized in that an alkoxysilane solution which contains the particles dispersed therein is applied on the glass plate followed by gelation of the solution to form a gel material and drying the gel material whereby the luminous layer in is formed as the thin film which is made of the silica aerogel which contains the particles of the luminescent material dispersed therein or which carries such particles.

10

[illegible]